



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017



Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-101c/CEMENT/2021-22

Date: 07.05.2021

TEST REPORT

* Customer	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of Work	:	Construction of CC roads and other works at Chikkasandra Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/594/2019-20 Dated : 18.03.2020
* Sample ID	:	Cement
Sample Received on	:	05.05.2021
Period of Testing	:	05.05.2021 to 07.05.2021
Report Issue Date	:	07.05.2021

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (2020)
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1.00 mm	Not more than 10mm

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K. Sreekanth

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ಶಿಕ್ಷಣ ಮತ್ತು ಅಭಿವೃದ್ಧಿ
ಬೆಂಗಳೂರು, ಕೆ.ಆರ್.ನಗರ



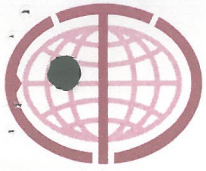
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Pooja K.L.
Authorised Signatory

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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-101c/Cube/2021-22

09.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC roads and other works at Chikkasandra Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/594/2019-20 Dated : 18.03.2020
* Sample ID	: RCC Drain Raft Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₅
Compressive Strength as on	: 28 th day
Sample Received on	: 09.06.2021
Report Issue Date	: 09.06.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.05.2021	09.06.2021	8.269	605.2	26.90
2	12.05.2021	09.06.2021	8.311	625.7	27.81
3	12.05.2021	09.06.2021	8.425	635.9	28.26

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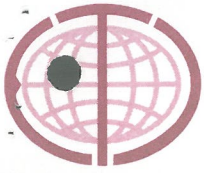
K. Sreeraj

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಜಲಮಂ. ಬೆಂಗಳೂರು

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Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₅
Compressive Strength as on	: 28 th day
Sample Received on	: 09.06.2021
Report Issue Date	: 09.06.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	12.05.2021	09.06.2021	8.092	623.6	27.72
2	12.05.2021	09.06.2021	8.193	615.2	27.34
3	12.05.2021	09.06.2021	8.287	635.9	28.26

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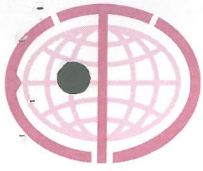
Pooja K.L.
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18.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC roads and other works at Chikkasandra Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/594/2019-20 Dated : 18.03.2020
* Sample ID	: RCC Drain Side Wall Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₅
Compressive Strength as on	: 28 th day
Sample Received on	: 18.06.2021
Report Issue Date	: 18.06.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.05.2021	18.06.2021	8.130	613.2	27.25
2	21.05.2021	18.06.2021	8.260	622.3	27.66
3	21.05.2021	18.06.2021	8.396	630.8	28.04

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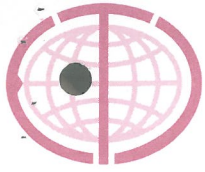
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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-101c/Cube/2021-22

21.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC roads and other works at Chikkasandra Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/594/2019-20 Dated : 18.03.2020
* Sample ID	: RCC Drain Side Wall Concrete
Technical Reference	: IS: 516-1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₅
Compressive Strength as on	: 28 th day
Sample Received on	: 21.06.2021
Report Issue Date	: 21.06.2021

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	24.05.2021	21.06.2021	8.392	607.9	27.02
2	24.05.2021	21.06.2021	8.426	590.3	26.24
3	24.05.2021	21.06.2021	8.380	608.9	27.06

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5/2021-22



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Job No.: CTCE/BBMP/KRIDL/W.No.12/CSR-101c/Precast Slab/2021-22

02.06.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of work	:	Construction of CC roads and other works at Chikkasandra Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/VO/594/2019-20 Dated : 18.03.2020
* Sample ID	:	Precast Slab - 100MM Thick
* Grade of Concrete	:	M ₂₀
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample Received on	:	01.06.2021
Date of Testing	:	02.06.2021
Report Issue Date	:	02.06.2021

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	78.00	0.390	2546.48	1.56	0.952	31.62	16.10	17.39	18.26	22.82
2	50.00	79.00	0.399	2572.27	1.58	0.955	32.92	16.77	18.11	18.97	23.71
3	50.00	80.00	0.398	2533.75	1.60	0.957	31.25	15.92	17.19	17.96	22.46

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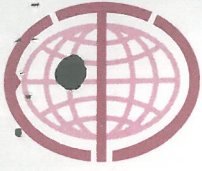
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14.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of the work	: Construction of CC roads and other works at Chikkasandra Colony in Ward No.12, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/594/2019-20 Dated : 18.03.2020
* Sample ID	: Road Concrete
Test Method as per	: IS - 516 : 1959 (RA-2018)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
* Compressive Strength as on	: 28 th day
Sample Received on	: 14.07.2021
Report Issue Date	: 14.07.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	16.06.2021	14.07.2021	8.222	713.3	31.70
2	16.06.2021	14.07.2021	8.380	715.2	31.79
3	16.06.2021	14.07.2021	8.390	722.9	32.13

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15.07.2021

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Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₃₀
* Compressive Strength as on	: 28 th day
Sample Received on	: 15.07.2021
Report Issue Date	: 15.07.2021

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	17.06.2021	15.07.2021	8.290	729.6	32.43
2	17.06.2021	15.07.2021	8.310	735.8	32.70
3	17.06.2021	15.07.2021	8.125	745.8	33.15

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